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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Maintaining page coherence for dynamic HTML pages](#)

Antonio Si, Hong V. Leong, Stanley M. T. Yau

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**Full text available: pdf(957.58 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** Internet/intranet, World Wide Web, database caching, digital libraries**2** [Information gathering in the World-Wide Web: the W3QL query language and the W3QS system](#)

David Konopnicki, Oded Shmueli

December 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 4

Full text available: pdf(1.36 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web (WWW) is a fast growing global information resource. It contains an enormous amount of information and provides access to a variety of services. Since there is no central control and very few standards of information organization or service offering, searching for information and services is a widely recognized problem. To some degree this problem is solved by "search services," also known as "indexers," such as Lycos, AltaVista, Yahoo, and others. ...

**Keywords:** CGI, FORMS, HTML, HTTP, PERL, World-Wide Web, query language, query system**3** [Accessing relational databases from the World Wide Web](#)

Tam Nguyen, V. Srinivasan

June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data**, Volume 25 Issue 2

Full text available: pdf(1.45 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With the growing popularity of the internet and the World Wide Web (Web), there is a fast growing demand for access to database management systems (DBMS) from the Web. We

describe here techniques that we invented to bridge the gap between HTML, the standard markup language of the Web, and SQL, the standard query language used to access relational DBMS. We propose a flexible general purpose variable substitution mechanism that provides cross-language variable substitution between HTML input and S ...

#### 4 Logic programming with the World-Wide Web

Seng Wai Loke, Andrew Davison

March 1996 **Proceedings of the the seventh ACM conference on Hypertext**

Full text available:  [pdf\(1.97 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** World-Wide Web, common client interface, mobile code, mosaic, prolog, structured logic programming



#### 5 An RTP-based synchronized hypermedia live lecture system for distance education

Herng-Yow Chen, Yen-Tsung Chia, Gin-Yi Chen, Jen-Shin Hong

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**

Full text available:  [pdf\(930.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this article, we have introduced a "Live Synchronized Hypermedia Live Lecture (SHLL) System" using RTP to synchronize the live presentation of streaming video lecture, HTML-based lecture notes, and HTML page Navigation Events. The SHLL framework consists of three major modules: (1) SHLL Recorder- for recording the temporal information of the AV lecture and the HTML-based lecture notes navigation processes. (2) SHLL Event Server- for receiving, depositing, and multicasting SHL ...

**Keywords:** RTP, distance learning, multimedia synchronization



#### 6 TCL/TK networking for your introduction to computer science class

Peter C. Isaacson

October 2000 **Journal of Computing Sciences in Colleges**, Volume 16 Issue 1


Full text available:  [pdf\(128.16 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



#### 7 The Purdue University network-computing hubs: running unmodified simulation tools via the WWW

Nirav H. Kapadia, José A. B. Fortes, Mark S. Lundstrom













January 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 10 Issue 1

Full text available:  [pdf\(110.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the Web interface management infrastructure of a functioning network-computing system (PUNCH) that allows users to run unmodified simulation packages at geographically dispersed sites. The system currently contains more than fifty university and commercial simulation tools, and has been used to carry out more than two hundred thousand simulations via the World Wide Web. Dynamically-constructed virtual URLs allow the Web interface management infrastructure to support the ...

**Keywords:** Internet computing, network-computing, web-based simulation



- 8 Database techniques for the World-Wide Web: a survey   
Daniela Florescu, Alon Levy, Alberto Mendelzon  
September 1998 **ACM SIGMOD Record**, Volume 27 Issue 3  
Full text available:  [pdf\(1.79 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)
- 9 Where campus meets the Internet: a universally accessible online documentation system   
Susan Topol, Mark Smith, Suzanne Schluederberg  
February 1996 **Proceedings of the 13th annual international conference on Systems documentation: emerging from chaos: solutions for the growing complexity of our jobs**  
Full text available:  [pdf\(809.98 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)
- 10 An architecture for WWW-based hypercode environments   
Gail E. Kaiser, Stephen E. Dossick, Wenyu Jiang, Jack Jingshuang Yang  
May 1997 **Proceedings of the 19th international conference on Software engineering**  
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- 11 Web prefetching between low-bandwidth clients and proxies: potential and performance   
Li Fan, Pei Cao, Wei Lin, Quinn Jacobson  
May 1999 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1999 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 27 Issue 1  
Full text available:  [pdf\(1.41 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
- 12 WebExpress: a client/intercept based system for optimizing Web browsing in a wireless environment   
Barron C. Housel, George Samaras, David B. Lindquist  
December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4  
Full text available:  [pdf\(338.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
  
This paper describes an application model and software technology that makes it possible to run World Wide Web applications in wide area wireless networks. Web technology in conjunction with today's mobile devices (e.g., laptops, notebooks, personal digital assistants) and the emerging wireless technologies (e.g., digital cellular, packet radio, CDPD) offer the potential for unprecedented access to data and applications by mobile workers. Yet, the limited bandwidth, high latency, high cost, ...
- 13 HTML   
Eric Kasten  
July 1995 **Linux Journal**  
Full text available:  [html\(20.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)  
  
A Gentle Introduction: Learn how to create documents for the World Wide Web in HTML

14 Integrating open hypermedia systems with the World Wide Web

Kenneth M. Anderson

April 1997 **Proceedings of the eighth ACM conference on Hypertext**

Full text available:  pdf(1.00 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** Chimera, World Wide Web, intergration, open hypermedia systems

15 A browsing tool of multi-lingual documents for users without multi-lingual fonts

Tetsuo Sakaguchi, Akira Maeda, Takehisa Fujita, Shigeo Sugimoto, Koichi Tabata


April 1996 **Proceedings of the first ACM international conference on Digital libraries**

Full text available:  pdf(789.68 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 An automated approach for retrieving hierarchical data from HTML tables

Seung-Jin Lim, Yiu-Kai Ng

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**


Full text available:  pdf(1.74 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Among the HTML elements, HTML tables [RHJ98] encapsulate hierarchically structured data (hierarchical data in short) in a tabular structure. HTML tables do not come with a rigid schema and almost any forms of two-dimensional tables are acceptable according to the HTML grammar. This relaxation complicates the process of retrieving hierarchical data from HTML tables. In this paper, we propose an automated approach for retrieving hierarchical data from HTML tables. The proposed approach constr ...

17 Using HTML frames for institutional websites

Glenn J. Broadhead

September 1998 **Proceedings of the 16th annual international conference on Computer documentation**

Full text available:  pdf(807.36 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** HTML, consistency, frames, genre, layer of structure, level of meaning, usability, website

18 HTML Forms

Eric Kasten

August 1995 **Linux Journal**

Full text available:  html(16.47 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Interacting with the Net: How to create interactive HTML forms

19 Using Web server logs to improve site design


M. Carl Drott

September 1998 **Proceedings of the 16th annual international conference on Computer documentation**

Full text available:  pdf(876.19 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**20 WebExpress: a system for optimizing Web browsing in a wireless environment**

Barron C. Housel, David B. Lindquist

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**Full text available:  [pdf\(995.95 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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Relevance scale ☐ ☐ ☐ ☐ ☐**1 [Learning to remove Internet advertisements](#)**

Nicholas Kushmerick

April 1999 **Proceedings of the third annual conference on Autonomous Agents**Full text available: [pdf\(902.40 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2 [Web prefetching between low-bandwidth clients and proxies: potential and performance](#)**

Li Fan, Pei Cao, Wei Lin, Quinn Jacobson

May 1999 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1999 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 27 Issue 1Full text available: [pdf\(1.41 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3 [Proceedings - only: Towards a real-world wide web](#)**

Tim Kindberg, John Barton

September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**Full text available: [pdf\(39.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

As computer hardware shrinks and lightens and as communications becomes cheaper and more widely available, we have new opportunities for software systems to support *nomadic* users of *ubiquitous* or *pervasive* computing services [16, 24]. We are interested in systems that support interaction with the physical world wherever users happen to be. More and more things in the physical world, such as our cars and domestic appliances, are becoming "smart". Users need a convenient frame ...

**4 [Using Web server logs to improve site design](#)**

M. Carl Drott

September 1998 **Proceedings of the 16th annual international conference on Computer documentation**Full text available: [pdf\(876.19 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Representing internet streaming media metadata using MPEG-7 multimedia description schemes

Eric Rehm

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Full text available:  pdf(603.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Singingfish.com uses MPEG-7 description schemes to model the metadata characteristics of Internet streaming media. Further it has used MPEG-7 description schemes as the basis for a number of internal experiments, processes, as well as interchange with commercial content partners. This paper describes our selection of description schemes from the MPEG-7 Multimedia Description Schemes (MDS) Working Drafts, their ability (or lack thereof) to represent Internet streaming media metadata, and our e ...

**Keywords:** MPEG-7, multimedia, search engine, streaming media

6 HTML Forms

Eric Kasten

August 1995 **Linux Journal**

Full text available:  html(16.47 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Interacting with the Net: How to create interactive HTML forms

7 Designing Dexter-based hypermedia services for the World Wide Web

Kaj Grønbaek, Niels Olof Bouvin, Lennert Sloth

April 1997 **Proceedings of the eighth ACM conference on Hypertext**

Full text available:  pdf(1.08 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** ActiveX, Dexter hypertext reference model, HTML, Java, JavaScript, OLE, World Wide Web, link objects, open hypermedia service

8 V-Lynx: bringing the World Wide Web to sight impaired users

Mitchell Krell, Davor Cubranic

April 1996 **Proceedings of the second annual ACM conference on Assistive technologies**

Full text available:  pdf(384.83 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** Lynx, URL, WWW, audio, http protocol, hypertext, voice, web browser, web navigation

9 An RTP-based synchronized hypermedia live lecture system for distance education

Herng-Yow Chen, Yen-Tsung Chia, Gin-Yi Chen, Jen-Shin Hong

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**

Full text available:  pdf(930.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this article, we have introduced a "Live Synchronized Hypermedia Live Lecture (SHLL) System" using RTP to synchronize the live presentation of streaming video lecture, HTML-based lecture notes, and HTML page Navigation Events. The SHLL framework consists of three major modules: (1) SHLL Recorder- for recording the temporal information of the AV

lecture and the HTML-based lecture notes navigation processes. (2) SHLL Event Server- for receiving, depositing, and multicasting SHL ...

**Keywords:** RTP, distance learning, multimedia synchronization

# 10 Errata for "Potential benefits of delta encoding and data compression for HTTP"

Jeffrey C. Mogul, Fred Dougliis, Anja Feldmann, Balachander Krishnamurthy  
January 1998 **ACM SIGCOMM Computer Communication Review**, Volume 28 Issue 1

Full text available:  pdf(404.16 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The quantitative results presented in our SIGCOMM '97 paper [1] include numerous minor errors. These errors were caused by programming bugs that led to faulty analyses and simulations, and by inaccurate transcriptions during the preparation of the paper. Here we present corrected figures and tables, as well as corrections to values that appeared in the text of the original paper. The effect of correcting the errors is to reduce the differences between the results based on the proxy trace and tho ...


# 11 An architecture for WWW-based hypercode environments

Gail E. Kaiser, Stephen E. Dossick, Wenyu Jiang, Jack Jingshuang Yang  
May 1997 **Proceedings of the 19th international conference on Software engineering**

Full text available:  pdf(1.84 MB) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)


# 12 Dynamic hyperlink generation for navigation in relational databases

Karl M. G schka, J rgen Falb  
February 1999 **Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots: returning to our diverse roots**

Full text available:  pdf(277.22 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

# 13 Untangling the World-Wide Web

Liam Reihan, Tony Cahill, Michael G. Hinchey  
October 1994 **Proceedings of the 12th annual international conference on Systems documentation: technical communications at the great divide**

Full text available:  pdf(1.04 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

# 14 A Web Crawler in Perl

Mike Thomas  
August 1997 **Linux Journal**

Full text available:  html(14.82 KB) Additional Information: [full citation](#), [index terms](#)

# 15 The Purdue University network-computing hubs: running unmodified simulation tools via the WWW

Nirav H. Kapadia, Jos  A. B. Fortes, Mark S. Lundstrom  
January 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 10 Issue 1

Full text available:  pdf(110.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index](#)



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This paper describes the Web interface management infrastructure of a functioning network-computing system (PUNCH) that allows users to run unmodified simulation packages at geographically dispersed sites. The system currently contains more than fifty university and commercial simulation tools, and has been used to carry out more than two hundred thousand simulations via the World Wide Web. Dynamically-constructed virtual URLs allow the Web interface management infrastructure to support the ...

**Keywords:** Internet computing, network-computing, web-based simulation

16 Web-based applications you can live with

Brent W. Benson

March 2000 **ACM SIGPLAN Notices**, Volume 35 Issue 3

Full text available:  [pdf\(261.64 KB\)](#) Additional Information: [full citation](#), [index terms](#)

17 SNMP through WWW

Ching-Wun 'Bo' Tsai, Ruay-Shiung 'Bo' Chang

March 1998 **International Journal of Network Management**, Volume 8 Issue 2

Full text available:  [pdf\(376.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this article we propose a bilingual agent to accept either SNMP or HTTP commands and design several HTML pages to facilitate the task of network management. For network elements that support only SNMP, the bilingual agent can act as a proxy, so that the traditional SNMP agent can also be queried through the Web browser. © 1998 John Wiley & Sons, Ltd.

18 Position papers: Adding realtime applets and quality of service support to the world wide web

K. Lakshman, Madan Manoharan, Raj Yavatkar

September 1996 **Proceedings of the 7th workshop on ACM SIGOPS European workshop: Systems support for worldwide applications**


Full text available:  [pdf\(762.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Predictable Quality Of Service (QoS) in terms of controlled response time and guaranteed bandwidth is increasingly important in World Wide Web. We propose a variety of enhancements and extensions to the existing Web infrastructure so that Web applications and applets can provide predictable quality of service. The proposed extensions include addition of the notion of QoS to the HTML/HTTP/Java syntax, QoS negotiation and adaptation mechanisms in Java classes and threads, QoS reservation support a ...

19 Toward a Dexter-based model for open hypermedia: unifying embedded references and link objects

Kaj Grønbaek, Randall H. Trigg

March 1996 **Proceedings of the the seventh ACM conference on Hypertext**

Full text available:  [pdf\(1.31 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** Dexter hypertext reference model, dynamic hypermedia, embedded links, generic links, link objects, open hypermedia

**20 PICS: Internet access controls without censorship**



Paul Resnick, James Miller

October 1996 **Communications of the ACM**, Volume 39 Issue 10

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## Potential benefits of delta encoding and data compression for HTTP

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### ↑ ABSTRACT

Caching in the World Wide Web currently follows a naive model, which assumes that resources are referenced many times between changes. The model also provides no way to update a cache entry if a resource does change, except by transferring the resource's entire new value. Several previous papers have proposed updating cache entries by transferring only the differences, or "delta," between the cached entry and the current value. In this paper, we make use of dynamic traces of the full contents of HTTP messages to quantify the potential benefits of delta-encoded responses. We show that delta encoding can provide remarkable improvements in response size and response delay for an important subset of HTTP content types. We also show the added benefit of data compression, and that the combination of delta encoding and data compression yields the best results. We propose specific extensions to the HTTP protocol for delta encoding and data compression. These extensions are compatible with existing implementations and specifications, yet allow efficient use of a variety of encoding techniques.

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Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

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## ↑ INDEX TERMS

### Primary Classification:

**C. Computer Systems Organization**

↳ **C.2 COMPUTER-COMMUNICATION NETWORKS**

### Additional Classification:

**E. Data**

**I. Computing Methodologies**

↳ **I.6 SIMULATION AND MODELING**

### General Terms:

Design, Documentation, Measurement, Performance

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